Routing

Configuring Routes

Routes are configured by rendering <Routes> and <Route> that couple URL segments to UI elements.

```
1
    import React from "react";
    import ReactDOM from "react-dom/client";
2
    import { BrowserRouter, Routes, Route } from "react-router";
3
    import App from "./app";
4
5
6
    const root = document.getElementById("root");
7
8
    ReactDOM.createRoot(root).render(
9
      <BrowserRouter>
         <Routes>
10
           <Route path="/" element={<App />} />
11
12
         </Routes>
13
     </BrowserRouter>
14
    );
```

Here's a larger sample config:

```
<Routes>
      <Route index element={<Home />} />
       <Route path="about" element={<About />} />
4
5
       <Route element={<AuthLayout />}>
         <Route path="login" element={<Login />} />
6
         <Route path="register" element={<Register />} />
7
       </Route>
8
9
       <Route path="concerts">
10
         <Route index element={<ConcertsHome />} />
11
```

Nested Routes

Routes can be nested inside parent routes.

The path of the parent is automatically included in the child, so this config creates both "/dashboard" and "/dashboard/settings" URLs.

Child routes are rendered through the <0utlet/> in the parent route.

```
app/dashboard.tsx
                                                                              h
    import { Outlet } from "react-router";
1
2
3
    export default function Dashboard() {
      return (
4
        <div>
5
           <h1>Dashboard</h1>
7
           {/* will either be <Home/> or <Settings/> */}
           <Outlet />
8
9
        </div>
      );
10
11
    }
```

Layout Routes

Routes without a path create new nesting for their children, but they don't add any segments to the URL.

```
1 <Routes>
2 <Route element={<MarketingLayout />}>
```

```
3
         <Route index element={<MarketingHome />} />
         <Route path="contact" element={<Contact />} />
4
       </Route>
5
6
       <Route path="projects">
7
8
         <Route index element={<ProjectsHome />} />
9
         <Route element={<ProjectsLayout />}>
           <Route path=":pid" element={<Project />} />
10
11
           <Route path=":pid/edit" element={<EditProject />} />
         </Route>
12
13
       </Route>
     </Routes>
14
```

Index Routes

Index routes render into their parent's <outlet/> at their parent's URL (like a default child route). They are configured with the index prop:

```
1
     <Routes>
       <Route path="/" element={<Root />}>
2
         {/* renders into the outlet in <Root> at "/" */}
3
         <Route index element={<Home />} />
4
5
         <Route path="dashboard" element={<Dashboard />}>
7
           {/* renders into the outlet in <Dashboard> at "/dashboard" */}
8
           <Route index element={<DashboardHome />} />
           <Route path="settings" element={<Settings />} />
9
         </Route>
10
11
       </Route>
12
     </Routes>
```

Note that index routes can't have children. If you're expecting that behavior, you probably want a layout route.

Route Prefixes

A <Route path> without an element prop adds a path prefix to its child routes, without introducing a parent layout.

```
app/routes.ts

1 <Route path="projects">
```

Dynamic Segments

latest 🗘

API Reference



> Routing

```
1 <Route path="teams/:teamId" element={<Team />} />
```

```
import { useParams } from "react-router";

export default function Team() {
   let params = useParams();
   // params.teamId
}
```

You can have multiple dynamic segments in one route path:

```
app/category-product.tsx

import { useParams } from "react-router";

export default function Team() {
 let { categoryId, productId } = useParams();
 // ...
}
```

You should ensure that all dynamic segments in a given path are unique. Otherwise, as the params object is populated - latter dynamic segment values will override earlier values.

Optional Segments

You can make a route segment optional by adding a ? to the end of the segment.

```
1 <Route path=":lang?/categories" element={<Categories />} />
```

You can have optional static segments, too:

```
1 <Route path="users/:userId/edit?" component={<User />} />
```

Splats

Also known as "catchall" and "star" segments. If a route path pattern ends with /* then it will match any characters following the /, including other / characters.

You can destructure the \star , you just have to assign it a new name. A common name is splat :

```
1 let { "*": splat } = useParams();
```

Linking

Link to routes from your UI with Link and NavLink

```
to="/"
8
          className={({ isActive }) =>
9
            isActive ? "active" : ""
10
           }
11
12
13
          Home
        </NavLink>
14
15
         <Link to="/concerts/salt-lake-city">Concerts</Link>
16
      </nav>
17
    );
18
19 }
```

Brand Assets
Docs and examples CC 4.0